REMARKS

Claims 1-6, 8-15, 17-23, 25 and 26 are pending in the application. Claims 1-6, 8-15, 17-23, 25 and 26 have been rejected.

Claims 1-5, 8-11, 13-15, 17-22 and 25-26 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over U.S. Patent No. 5,491,693 issued to Britton (Britton) in view of U.S. Patent No. 5,680,551 issued to Martino, II (Martino). Claims 6, 12 and 23 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Britton in view of Martino and further in view of U.S. Patent No. 5,710,908 issued to Man (Man). These rejections are respectfully traversed.

The present invention, as set forth by independent claim 1, relates to a method which includes obtaining a message from a first component of a software system, identifying a module to handle scheme-specific communication of the message and using the module for communicating the message from the first component to a second component of the software system. The message communicating includes using a first resource locator to identify the first component and using a second resource locator to identify the second component. The first resource locator includes a first resource locator communication scheme indication portion, a first resource locator network node name indication portion, a first resource locator port identifier indication portion and a first resource locator path indication portion. The second resource locator includes a second resource locator communication scheme indication portion, a second resource locator network node name indication portion, a second resource locator port identifier indication portion and a second resource locator path indication portion.

The present invention, as set forth by independent claim 10, relates to a software system which includes a common interface to communicate between a first component of a software system and a second component of the software system, a communication scheme handler to identify a module to handle scheme-specific communication between the first component and the second component, a first resource locator for the first component and a second resource locator for the second component. The first resource locator includes a first resource locator communication scheme indication portion, a first resource locator network node name indication portion, a first resource locator port identifier indication portion and a first resource locator path

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indication portion. The second resource locator including a second resource locator communication scheme indication portion, a second resource locator network node name indication portion, a second resource locator port identifier indication portion and a second resource locator path indication portion.

The present invention, as set forth by independent claim 18, relates to a computer program product which includes obtaining instructions to obtain a message from a first component of a software system, identifying instructions to identify a module to handle scheme-specific communication of the message, using instructions to use the module to communicate the message from the first component to a second component of the software system, and a computer-readable medium to store the obtaining instructions, the identifying instructions and the using instructions. The using instructions include resource locator instructions to use a first resource locator to identify the first component and to use a second resource locator to identify the second component. The first resource locator includes a first resource locator communication scheme indication portion, a first resource locator network node name indication portion, a first resource locator port identifier indication portion and a first resource locator path indication portion. The second resource locator including a second resource locator communication scheme indication portion, a second resource locator network node name indication portion, a second resource locator port identifier indication portion and a second resource locator path indication portion.

Britton discloses a multiprotocol transport network (MPTN) gateway that provides transparent interconnection of two or more single protocol transport networks (SPTNs) running different transport layer protocols to form an integrated heterogeneous MPTN. The MPTN gateway uses a common transport provider (e.g., a Gateway Services Protocol Boundary (GSPB)) between the SPTN transport protocols and the gateway components. The MPTN gateway supports connections between end systems across multiple intermediate networks. The MPTN gateway provides automatic routing based on dynamic participation in the routing protocols of the interconnected SPTNs. Figures 6A and 6B through Figure 11 of Britton and the associated description (e.g., Britton, Col. 8, line 21 Col. 12, line 4) set forth a flow a messages exchanged various elements of the multiprotocol transport network.

Martino discloses method for heterogeneous connectivity and universal and generic interfacing for distributed applications and processes residing in a wide variety of computing platforms communicating over varied transport facilities, through an integrated set of lower-level programs and routines that handle specific services (message/data recovery, security, directory services, etc.).

When setting forth that Martino teaches a system for identifying a resource locator for a scheme-specific communication of a message, the Examiner cited to the following portion of Martino.

> The message destination must be specified using IDs (7, FIG. 3) that have been established for the user environments. Both message handling and message destination specifications are loaded into a special EMS data buffer--the Interface Control Block (ICB) 4', FIGS. 4 and 6,--before the EMS API function call is made. (Martino, Col. 11, lines 44 – 49).

When setting forth that Martino teaches a first resource locator communication scheme indication portion, a first resource locator network node indication portion, a first resource port identifier indication portion and a first resource locator path indication portion, the Examiner cited to the following portion of Martino:

> It is also important to provide for the extraction of new network message information. If the outgoing message is to transverse a processing network (for example, the Motorola MoNet) and the network ID for the destination is not in the addressbook, then it is added to the addressbook. Like all of the other configuration files, the addressbook itself is an editable file and may be completed with other information at a later date. The ID is captured on the fly, however, to simplify later maintenance by the user or administrator.

> To complete the EMS message header, proper network, communication medium, next hop and final address (as appropriate) are filled into the ICB and reformatted as needed into the EMS Message Header (EMH), FIG. 4. Only the next hop and final address (as known) are inserted. Each hop along the way determines the medium and addressing for the next hop. This approach means that pathing may vary as necessary and achieves the desirable result that such is totally transparent both to the preceding and succeeding hops and to the initiator and receiver of the message.

> Based on the communication medium selected, moreover, the proper communication agent type is selected from the service information file. For each EMS Communication Agent type, a standard template is provided including service name, process driver name, CA class (Express, Bulk, All), type (i.e. ARDIS), device ID (ESN or telephone number), port or network address, start automatically at run time (Y/N), shut down when no

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applications open (Y/N) (i.e. last TERM), maximum message size (including ICB's but not protocol headers), block/packet size, name of file containing startup command for communications agent, and name of special parameter file (for device/network specific parameters), This is where all of the protocol and device specific information goes and it also uses the keyword formats (Martino, Col. 13, lines 23 – 56).

However, neither of these portions of Martino, nor anywhere else within Martino is there any disclosure of communicating a message which includes using a first resource locator to identify the first component and using a second resource locator to identify the second component, the first resource locator including a first resource locator communication scheme indication portion, a first resource locator network node name indication portion, a first resource locator port identifier indication portion and a first resource locator path indication portion, the second resource locator including a second resource locator communication scheme indication portion, a second resource locator network node name indication portion, a second resource locator port identifier indication portion and a second resource locator path indication portion, as claimed. These deficiencies of Martino are not addressed by Britton or Man.

Man relates to a method of transmitting data between application programs independent of any specific protocol. More specifically, Man discloses a protocol independent method of transmitting a data packet from a first application program executing on a first device which is interfaced to a LAN to a second application program executing on a second device which is interfaced to the LAN. A protocol independent interface (PII) program is initialized which determines which protocols are available for use, assigns an access line to each protocol that is available for use, assigns an access ID to the first application program, and creates mapping information that indicates a one-to-one correspondence between an access ID/access line pair and a block of protocol specific information which includes a protocol header having predetermined address data. A data packet is sent to the PII program together with the access ID of the first application program and a destination ID for the second application program, and one of the available protocols is selected to transmit the data packet. A block of protocol specific information is retrieved from the mapping information based on the access ID of the first application program and the access line corresponding to the selected protocol, and a transmission packet is formed which includes the data packet, the destination ID, and the retrieved block of protocol specific information. The transmission packet is then transmitted via the LAN.

Accordingly, Britton, Martino and Man, taken alone or in combination, do not teach or suggest a method which includes communicating a message from a first component to a second component where the message communicating includes using a first resource locator to identify the first component and using a second resource locator to identify the second component, much less where the first resource locator includes a first resource locator communication scheme indication portion, a first resource locator network node name indication portion, a first resource locator port identifier indication portion and a first resource locator path indication portion; and the second resource locator includes a second resource locator communication scheme indication portion, a second resource locator network node name indication portion, a second resource locator port identifier indication portion and a second resource locator path indication portion, all as required by claim 1. Accordingly, claim 1 is allowable over Britton, Martino and Man. Claims 2 - 9 depend from claim 1 and are allowable for at least this reason.

Additionally, Britton, Martino and Man, taken alone or in combination, do not teach or suggest a software system which includes a first resource locator for a first component and a second resource locator for a second component where the first resource locator includes a first resource locator communication scheme indication portion, a first resource locator network node name indication portion, a first resource locator port identifier indication portion and a first resource locator path indication portion and the second resource locator includes a second resource locator communication scheme indication portion, a second resource locator network node name indication portion, a second resource locator port identifier indication portion and a second resource locator path indication portion, all as required by claim 10. Accordingly, claim 10 is allowable over Britton, Martino and Man. Claims 11 - 17 depend from claim 10 and are allowable for at least this reason.

Additionally, Britton, Martino and Man, taken alone or in combination, do not teach or suggest a computer program product which includes using instructions to use a module to communicate the message from a first component to a second component of the software system where the using instructions include resource locator instructions to use a first resource locator to identify the first component and to use a second resource locator to identify the second component; and wherein the first resource locator includes a first resource locator communication scheme indication portion, a first resource locator network node name indication

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portion, a first resource locator port identifier indication portion and a first resource locator path indication portion and the second resource locator includes a second resource locator communication scheme indication portion, a second resource locator network node name indication portion, a second resource locator port identifier indication portion and a second resource locator path indication portion, all as required by claim 18. Accordingly, claim 18 is allowable over Britton, Martino and Man. Claims 19 - 26 depend from claim 18 and are allowable for at least this reason.

CONCLUSION

In view of the amendments and remarks set forth herein, the application is believed to be in condition for allowance and a notice to that effect is solicited. Nonetheless, should any issues remain that might be subject to resolution through a telephonic interview, the examiner is requested to telephone the undersigned.

I hereby certify that this correspondence is being electronically submitted to the COMMISSIONER FOR PATENTS via EFS on October 18, 2006.

/Stephen A. Terrile/

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Respectfully submitted,

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